## Claims:

- A method of providing protection against disease in an animal
  comprising:
  - (a) admixing a water soluble palatable flavorant with a water soluble vehicle for administration of an orally administered vaccine;
  - (b) further admixing with the mixture of step (a), an antigen selected from the group consisting of a bacterium and a virus as an active component of the orally administered vaccine; and
  - (c) administering the orally administered vaccine of step (b) to an animal to provide protection against disease associated with infection by the antigen.
- The method of claim 1, wherein the antigen is capable of causing
  disease in an animal selected from the group consisting of swine, poultry, cattle,
  sheep, goats, horse, cat and dog.
- 3. The method of claim 2, wherein the antigen is selected from the group consisting of Erysipelothrix rhusiopathiae, Actinobacillus pleuroneumonla, Mycoplasma hyopneumonlae, E. coli K88, K99, F41 and 987P, Clostridium 20 perferingens type c, Salmonella choleraesuls, Pasterurella muitocida, Bordetella bronchiseptica, Leptospira bratislava, Leptospira canicola, Leptospira grippotyphosa, Leptospira hardio, Leptospira promona, Leptospira ictero, Porcine Influenza virus, Circovirus, PRRS virus, Swine pox, Rotavirus, Porcine Respiratory Coronavirus, 25 Parvo virus, Pseudorabies, transmissible gastroenteritis agent, Streptococcus equi, Clostridium tetanus, Equine Influenza Virus A1 and A2 strains, Equine Rhinopneumonids type 1, 1b and 4, Eastern Equine Encephalomyelitis, Western Equine Encephalomyelitis, Venezuelan Equine Encephalomyelitis, Equine Rotavirus, E. coli O157:H7, Pasterurella multocida, Pasterurella haemolytica, Clostridium 30 perferingens type D, Clostridium chauvoel, Clostridium novyl, Clostridium septicum, Clostridium haemolyticum, Clostridium sodellii, Salmonella dublin, Salmonella typhimurium, Bovine Rotavirus, Bovine coronavirus, Bovine rhinotracheitis, Bovine diarrhea virus, Parainfluenza-3, Respiratory syncytial virus, Sepullina pilosicoli.

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Marek's disease virus, Infectious bursal disease, Infectious bronchitis, Newcastle disease virus, Reo virus, Turkey rhinotracheltis, Couidiosis, Canine *Borrella burgdorferi*, Canine *Ehrlichia canis*, Canine *Bordetella bronchiseptica*, Canine *Giardia lamblia*, Canine distemper, Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza, Canine Parvovirus, Canine Rabies, Feline *Chlamydia psittaci*, Feline immunodeficiency virus, Feline infectious peritonitis virus, Feline leukemia virus, Feline rhinotrachelitis, Feline Panleukopenia, Feline rabies.

- 4. The method of claim 1, wherein the vaccine is administered through drinking water.
  - 5. The method of claim 1, wherein the animal is selected from the group consisting of swine, poultry, cattle, sheep, goats, horse, cat and dog.
- 15 6. The method of claim 1, wherein the animal is selected from the group consisting of swine and poultry.
  - 7. The method of claim 6, wherein the administration of the orally administered vaccine is a mass administration through drinking water.
  - 8. The method of claim 7, wherein the animal is a pig and the antigen is Erysipelothrix rhusiopathiae.
- 9. The method of claim 1, wherein the animal is selected from the group consisting of dog and cat.
  - 10. The method of claim 7, wherein the administration of the orally administered vaccine into the mouth through a syringe.
- 30 11. A method of inducing increased intake of an orally administered vaccine by an animal comprising:
  - (a) admixing a water soluble palatable flavorant with a water soluble vehicle for administration of an orally administered vaccine;

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- (b) further admixing with the mixture of step (a), an antigen selected from the group consisting of a bacterium and a virus as an active component of the orally administered vaccine; and
  - (c) administering the vaccine admixture of step (b) orally to the animal;
- (d) inducing the increased intake of the orally administered vaccine with the flavorant.
- 12. The method of claim 11, wherein the antigen is capable of causing disease in an animal selected from the group consisting of swine, poultry, cattle, sheep, goats, horse, cat and dog.
- The method of claim 12, wherein the antigen is selected from the 13. group consisting of Erysipelothrix rhusiopathiae, Actinobacillus pleuroneumonla, Mycoplasma hyopneumonlae, E. coli K88, K99, F41 and 987P, Clostridium perferingens type c, Salmonella choleraesuls, Pasterurella muitocida, Bordetella 15 bronchiseptica, Leptospira bratislava, Leptospira canicola, Leptospira grippotyphosa, Leptospira hardjo, Leptospira promona, Leptospira ictero, Porcine Influenza virus, Circovirus, PRRS virus, Swine pox, Rotavirus, Porcine Respiratory Coronavirus, Parvo virus, Pseudorabies, transmissible gastroenteritis agent, Streptococcus equi, Clostridium tetanus, Equine Influenza Virus A1 and A2 strains, Equine 20 Rhinopneumonids type 1, 1b and 4, Eastern Equine Encephalomyelitis, Western Equine Encephalomyelitis, Venezuelan Equine Encephalomyelitis, Equine Rotavirus, E. coli O157:H7, Pasterurella multocida, Pasterurella haemolytica, Clostridium perferingens type D, Clostridium chauvoel, Clostridium novyl, Clostridium septicum, Clostridium haemolyticum, Clostridium sodellii, Salmonella dublin, Salmonella 25 typhimurium, Bovine Rotavirus, Bovine coronavirus, Bovine rhinotracheitis, Bovine diarrhea virus, Parainfluenza-3, Respiratory syncytial virus, Sepullina pilosicoli, Marek's disease virus, Infectious bursal disease, Infectious bronchitis, Newcastle disease virus, Reo virus, Turkey rhinotracheltis, Couidiosis, Canine Borrella burgdorferi, Canine Ehrlichia canis, Canine Bordetella bronchiseptica, Canine Giardia 30 lamblia, Canine distemper, Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza, Canine Parvovirus, Canine Rabies, Feline Chlamydia psittaci, Feline

immunodeficiency virus, Feline infectious peritonitis virus, Feline leukemia virus, Feline rhinotrachelitis, Feline Panleukopenia, Feline rabies.

- 14. The method of claim 11, wherein the vaccine is administered through5 drinking water.
  - 15. The method of claim 11, wherein the animal is selected from the group consisting of swine, poultry, cattle, sheep, goats, horse, cat and dog.
- 10 16. The method of claim 15, wherein the animal is selected from the group consisting of swine and poultry.
  - 17. The method of claim 16, wherein the administration of the orally administered vaccine is a mass administration through drinking water.

18. The method of claim 17, wherein the animal is swine and the antigen is *Erysipelothrix rhusiopathiae*.

- 19. The method of claim 11, wherein the animal is selected from the group consisting of dog and cat.
  - 20. The method of claim 19, wherein the administration of the orally administered vaccine is at the back into the mouth through a syringe.
- 21. An orally administered animal vaccine formulation comprising as an active component an antigen selected from the group consisting of a bacterium and a virus, a water soluble palatable flavorant and a water soluble vehicle for administration of the orally administered animal vaccine.
- 30 22. The vaccine formulation of claim 21, wherein the antigen is capable of causing disease in an animal selected from the group consisting of swine, poultry, cattle, sheep, goats, horse, cat and dog.

- 23. The vaccine formulation of claim 22, wherein the antigen is selected from the group consisting of Erysipelothrix rhusiopathiae, Actinobacillus pleuroneumonla, Mycoplasma hyopneumonlae, E. coli K88, K99, F41 and 987P, Clostridium perferingens type c, Salmonella choleraesuls, Pasterurella muitocida, 5 Bordetella bronchiseptica, Leptospira bratislava, Leptospira canicola, Leptospira grippotyphosa, Leptospira hardjo, Leptospira promona, Leptospira ictero, Porcine Influenza virus, Circovirus, PRRS virus, Swine pox, Rotavirus, Porcine Respiratory Coronavirus, Parvo virus, Pseudorabies, transmissible gastroenteritis agent, Streptococcus equi, Clostridium tetanus, Equine Influenza Virus A1 and A2 strains, 10 Equine Rhinopneumonids type 1, 1b and 4, Eastern Equine Encephalomyelitis, Western Equine Encephalomyelitis, Venezuelan Equine Encephalomyelitis, Equine Rotavirus, E. coli O157:H7, Pasterurella multocida, Pasterurella haemolytica, Clostridium perferingens type D, Clostridium chauvoel, Clostridium novyl, Clostridium septicum, Clostridium haemolyticum, Clostridium sodellii, Salmonella dublin, 15 Salmonella typhimurium, Bovine Rotavirus, Bovine coronavirus, Bovine rhinotracheitis, Bovine diarrhea virus, Parainfluenza-3, Respiratory syncytial virus, Sepullina pilosicoli, Marek's disease virus, Infectious bursal disease, Infectious bronchitis, Newcastle disease virus, Reo virus, Turkey rhinotracheltis, Couidiosis, Canine Borrella burgdorferi, Canine Ehrlichia canis, Canine Bordetella bronchiseptica, 20 Canine Giardia lamblia, Canine distemper, Canine Adenovirus, Canine Coronavirus, Canine Parainfluenza, Canine Parvovirus, Canine Rabies, Feline Chlamydia psittaci, Feline immunodeficiency virus, Feline infectious peritonitis virus, Feline leukemia
- 25 24. The vaccine formulation of claim 21, wherein the vehicle for administration is drinking water.

virus, Feline rhinotrachelitis, Feline Panleukopenia, Feline rabies.

- 25. The vaccine formulation of claim 21, wherein the animal is a swine and the antigen is *Erysipelothrix rhusiopathiae*.
- 30 26. The vaccine formulation of claim 21, wherein the animal is selected from the group consisting of a dog and a cat and the vehicle for administration is a syrup.